

540191

Rec'd PCT/PTO

20 JUN 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/059074 A1

(51) International Patent Classification⁷: D06M 16/00, (74) Agent: NOVOZYMES NORTH AMERICA, INC; 500 101/32 Fifth Avenue, Suite 1600, New York, NY 10110 (US).

(21) International Application Number:
PCT/US2003/040736

(22) International Filing Date:
19 December 2003 (19.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/434,972 20 December 2002 (20.12.2002) US
60/491,717 31 July 2003 (31.07.2003) US

(71) Applicant (for all designated States except US):
NOVOZYMES NORTH AMERICA, INC. [US/US]; 77 Perry Chapel Church Road, Franklinton, NC 27525 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SALMON, Sonja [US/US]; 416 Emerson Drive, Raleigh, NC 27609 (US). SHI, Caroline [US/US]; #65 Franklin Street, Apt. 1, Allston, MA 02134 (US). LIU, Jiyin [US/US]; 9520 Candor Oaks Drive, Raleigh, NC 27615 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/059074 A1

(54) Title: TREATMENT OF FABRICS, FIBERS, OR YARNS

(57) Abstract: The present invention relates to a method for treating textiles with a carbohydrate oxidase and/or a fatty acid oxidizing enzyme.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40736

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : D06M 16/00, 101/32
US CL : 8/137; 435/263

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 8/137; 435/263

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,997,584 (ANDERSEN et al) 07 December 1999 (07.12.1999), abstract, column 12, 19-20.	1-5, 8-48, 50-61
A	US 6,165,761 (SCHNEIDER et al) 26 December 2000 (26.12.2000), abstract, column 28.	6-7 and 49

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

18 April 2004 (18.04.2004)

Date of mailing of the international search report

10 MAY 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Yogendra N. Gupta

Telephone No. 571-272-1700

